

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) An ~~active~~-antenna system of a radio communication terminal comprising:
  - a directional antenna that transmits and receives an RF signal to and from a base station through a radio link; and
  - an amplifying unit integrated on ~~one~~ a same board together with the directional antenna and ~~amplifying and filtering~~ that amplifies and filters the RF signal.
2. (Original) The system of claim 1, wherein the amplifying unit is integrated at an upper portion of an opposite side of the side where the directional antenna is formed.
3. (Original) The system of claim 1, wherein the amplifying unit comprises:
  - a plurality of duplexers that separates a transmission path and a reception path of an RF signal;
  - a sending end amplifying/filtering unit that amplifies and filters a transmitted RF signal;

a receiving end amplifying/filtering unit that amplifies and filters a received RF signal; and

a bias unit that separates an RF signal and a DC power inputted through a transmission line connected to a radio communication terminal.

4. (Original) The system of claim 3, wherein the amplifying unit further comprises:

a closed loop control circuit that detects a transmission output and generating/outputting a control signal.

5. (Original) The system of claim 4, wherein the closed loop control circuit comprises:

a coupling unit that branches a transmission output from a final end of the sending end amplifying/filtering unit; and

a detection controller that detects a strength of power of the branched transmission output and generates a gain control signal.

6. (Currently Amended) The system of claim 3, wherein the bias unit further comprises:

a band pass filter that passes ~~only~~ a signal of a specific band.

7. (Original) The system of claim 6, wherein the band pass filter separates a control signal.

8. (Currently Amended) An ~~active~~ antenna system of a radio communication terminal comprising:

a directional antenna that transmits and receives an RF signal to and from a base station;

a sending end amplifying/filtering unit that amplifies and filters an RF signal to be transmitted through a duplexer;

a receiving end amplifying/filtering unit that amplifies and filters the RF signal received through the duplexer;

a closed loop control circuit that generates a control signal according to power of a transmission RF signal outputted from a sending end amplifying/filtering unit; and

a bias unit that separates the RF signal and a DC power transmitted from a radio communication terminal through a transmission line,

wherein the receiving end amplifying/filtering unit includes a variable amplifier that amplifies a reception RF signal as much as a variable gain according to a control signal, and

wherein the closed loop control circuit comprises:

a coupling unit that branches a transmission output from a final end of the sending end amplifying/filtering unit; and

a detection controller that generates a control signal according to a strength of power of the branched transmission output and applies the control signal to the variable gain amplifier.

9. (Original) The system of claim 8, wherein the duplexer separates a transmission path and a reception path of an RF signal at both ends of the sending end amplifying/filtering unit and the receiving end amplifying/filtering unit.

10. (Original) The system of claim 8, wherein the sending end amplifying/filtering unit and the receiving end amplifying/filtering unit comprise, respectively:

a plurality of amplifiers that amplifies a transmission RF signal and a reception RF signal;

a filter for filtering each signal between amplifiers; and  
a power supply unit that supplies power to each amplifier.

11. (Original) The system of claim 10, wherein the power supply unit supplies a DC power transmitted from the bias unit.

12. (Canceled)

13. (Canceled)

14. (Currently Amended) The system of claim ~~13~~8, wherein the control signal makes the transmission output and the gain of the variable gain amplifier to be proportional to each other.

15. (Currently Amended) An ~~active~~-antenna system of a radio communication terminal comprising:

a directional antenna that transmits and receives an RF signal to and from a base station;

a sending end amplifying/filtering unit that amplifies and filters a transmission RF signal;

a receiving end amplifying/filtering unit that amplifies and filters a reception RF signal; and

a bias unit that separates an RF signal, a DC power and a control signal transmitted from the radio communication terminal through a transmission line,

wherein the control signal is applied to the sending and receiving end amplifying/filtering units to adjust a corresponding amplifier gain.

16. (Currently Amended) The system of claim 15, wherein the bias unit includes a band pass filter that passes ~~only~~ a control signal among signals transmitted through the transmission line.

17. (Original) The system of claim 15, wherein the sending end amplifying/filtering unit and the receiving end amplifying/filtering unit are connected to a duplexer separating a transmission path and a reception path at both ends.

18. (Original) The system of claim 15, wherein the sending end amplifying/filtering unit and the receiving end amplifying/filtering unit comprise, respectively:

- a plurality of amplifiers that amplifies a transmission RF signal and a reception RF signal;
- a filter that filters each signal between amplifiers; and
- a power supply unit that supplies power to each amplifier.

19. (Original) The system of claim 18, wherein the power supply unit supplies a DC power transmitted from the bias unit to the amplifier.

20. (Original) The system of claim 15, wherein the sending end amplifying/filtering unit and the receiving end amplifying/filtering unit include a variable gain amplifier that amplifies a reception RF signal as much as a variable gain according to a control signal.

21. (Currently Amended) The system of claim 3, wherein the bias unit further comprises a filter that passes ~~only~~ a signal meeting a predetermined filtering criteria.

22. (Currently Amended) An ~~active~~ antenna system of a radio communication terminal comprising:

an antenna that transmits and receives a communication signal to and from a communication node through a communication link; and

an amplifying unit integrated on ~~one a single~~ board together with the antenna and ~~amplifying and filtering that amplifies and filters~~ the communication signal.

23. (Canceled)

24. (Currently Amended) A radio communication method comprising:

transmitting and receiving an RF signal in a directional antenna to and from a communication node;

amplifying and filtering an RF signal in a sending end amplifying/filtering unit to be transmitted through a duplexer;

amplifying and filtering the RF signals in a receiving end amplifying filtering unit through the duplexer;

~~a closed loop control circuit that generates~~ generating a control signal according to power of a transmission RF signal outputted from ~~[[a]]~~ the sending end amplifying/filtering unit; and



~~a bias unit that separates~~ separating the RF signal and a DC power transmitted from a radio communication terminal through a transmission line,

wherein generating the control signal comprises:

branching a transmission output from a final end of the sending end  
amplifying/filtering unit; and

generating the control signal according to a strength of power of the branched  
transmission output and variably controlling a gain of the receiving end amplifying/filtering  
unit based on the generated control signal.

25. (New) The system of claim 8, wherein the directional antenna, the sending and receiving end amplifying and filtering units, the closed loop control circuit and the bias unit are mounted together on a same board.

26. (New) The system of claim 15, wherein the directional antenna, the sending and receiving end amplifying and filtering units and the bias unit are mounted together on a same board.